

We care for air.

**Diesel Particulate Filter with
Active Diesel Post-Injection**



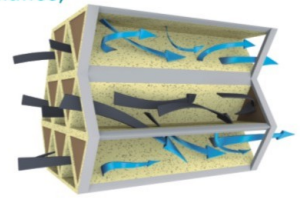
WWW.HUSSGROUP.COM

HUSS MD-SYSTEM DESIGN FEATURES

99.9%
SOOT FILTRATION RATE

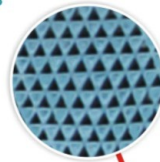
Wall-flow technology

High performance;
99.9% soot
collection



LPS-SiC Filter

Designed specifically
for Heavy-Duty and
Off-Road applications
with a long life
expectancy



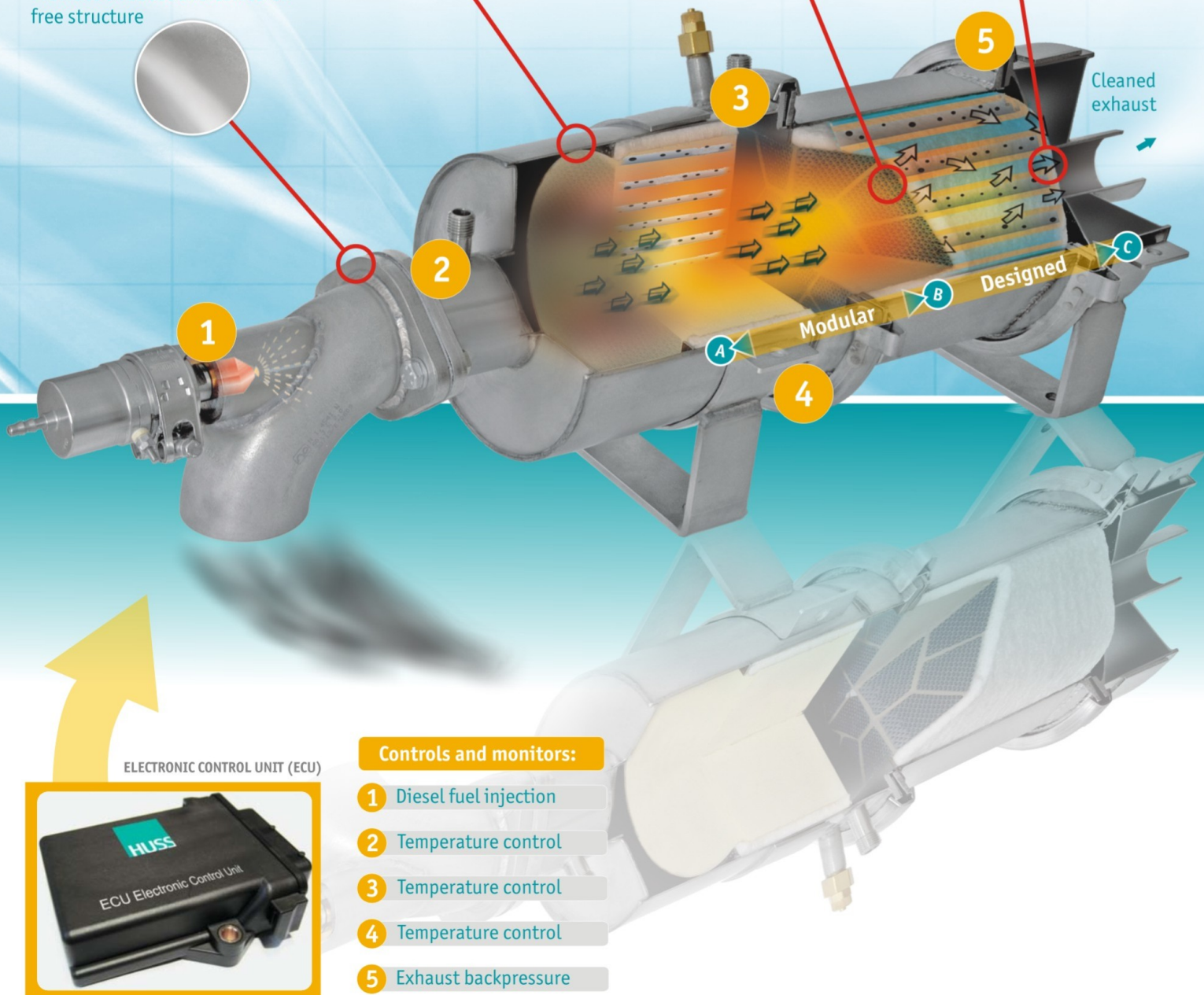
Modular Design

A, B and C modules



Stainless Steel Construction

Provides a robust and corrosion
free structure



ELECTRONIC CONTROL UNIT (ECU)



Controls and monitors:

- 1 Diesel fuel injection
- 2 Temperature control
- 3 Temperature control
- 4 Temperature control
- 5 Exhaust backpressure

HUSS MD-SYSTEM ADVANTAGES

Continuous regeneration		Regeneration during driving operation
HUSS ECU unit controls the entire process		Audible alarm
Independent from external power supply		No connection to main utility power
Non-cocking diesel injection		Higher duty cycles; Less maintenance
Short adaptation period		Short time period necessary for fleet retrofit
Low fuel consumption		Low filter system operating costs
Regeneration possible at low exhaust temperatures		Reliable function at low exhaust gas temperature conditions above 200°C

85% HC and CO REDUCTION

according to ESC test cycle



System Overview

The MD-System is integrated into the exhaust line of the vehicle. The high-tech LPS-SiC ceramic filters 99.9% of the harmful soot particles out of the exhaust gases. The active regeneration is executed during operation mode of the vehicle with an engine external diesel injection. The system already works reliably at low exhaust gas temperatures. The HUSS ECU unit controls the entire process.

A SOLUTION THAT FITS EVERY APPLICATION

Type of filter	MD35	MD75	MD150	MD200	MD300	MD400	MD600
Engine power in kW (hp) up to	0-35 (45)	-75 (100)	-150 (200)	-200 (270)	-300 (400)	-400 (540)	-600 (800)
PM collection rate	99,9 %						
Secondary emissions	85% HC and CO reduction according to ESC test cycle						
Filter material	Liquid-phased sintered Silicon Carbide (LPS-SiC)						
Exhaust gas temperature	App. 200°C/390°F in 10% of the operating time						
Control unit	HUSS ECU with integrated Datalogger						
On board voltage	12 V or 24 V						
Installation position	Horizontally or vertically						
Regeneration technique	Engine external diesel injection						
Filter casing	Stainless steel						

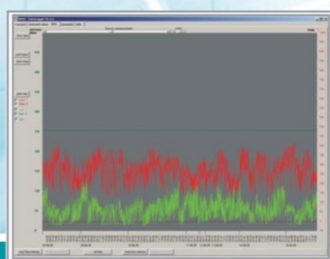
The sizing of a filter depends on the engine performance, emissions, volume flow rate, age and the condition of the vehicle. Therefore the values in the table can be considered as approximated values. Appropriate filter size may vary.

For further information:

www.hussgroup.com

ELECTRONIC ECU UNIT OVERVIEW

The electronic control of the post injection regeneration of a diesel particulate filter during vehicle operation, creates complex technical challenges that can only be overcome by the latest in filter regeneration technology. The ECU unit of the MD-System controls regeneration based on measured soot load and exhaust gas temperature. In addition to governing the reliable function of the entire system.



Continuous regeneration while driving at low exhaust gas temperatures



Worst case management

ECU controls extraordinary situations.
E.g.: Drop to idle



CAN-Bus ability

The ECU unit can be connected to the engine management of the vehicle



Data logger function

Data management software keeps track of the filter system operation



Safety Concept

Overloading of the filter prevented by security measures



Automatic supervising

Automatic monitoring of the function and regeneration of the filter

HUSS advantages



QUALITY

■ Experience and Know-how

HUSS products are successfully established in the market for more than 20 years

■ 99.9% PM reduction

99.9% soot collection due to LPS-SiC wall-flow filtering

■ Premium Materials

Stainless steel and Silicon Carbide offer long life

■ Certifications

VERT, CARB, TRGS 554, exhibit XXVII StVZO and other standards. Quality management according to DIN Iso 9001:2000

■ Warranty Extension

Customer satisfaction assured by long term warranty

TECHNOLOGY

■ Technology

Continuous development leads to innovative products

■ System Solutions

Particulate filters up to 600 kW (800 hp) and regeneration strategies for every application

■ Modular Design

Fits even in difficult locations

■ HUSS Competence in Ceramic Production

In-house production of LPS-SiC ceramic filters, especially developed for Off-road and Heavy-duty applications

■ HUSS Competence in Metalworking

In-house production of mufflers and pipings; Canning technology

SERVICE

■ Engineering

Engineering expertise in filter adaptation

■ Field Service

Installation, maintenance and repairs by our own professional service technicians

■ Professional Sales Assistance

Products and product support directly from the manufacturer

■ International Presence

HUSS has corporate locations in North America and Europe with authorized partners located internationally

■ Training

Special training courses on all filter systems by HUSS specialists

Trucks and commercial vehicles

Transit and school buses

Construction machines

Forklifts and Cargo Handling

Ships and rail

Stationary engines

Special applications

FIELDS OF EXCELLENCE



Professionalism at its best

The entire range of solutions:

The HUSS Group companies produce high-tech and high-quality solutions for the exhaust aftertreatment of diesel engines, with focus on both, first- and retrofit, of heavy-duty and off-road applications.

The HUSS Group production facilities include; CleanDiesel-Ceramics, the producer of the LPS-SiC ceramic filters and Metpela, the producer of the particulate trap casing.

HUSS Locations in North America and Europe provide verified retrofit solutions to meet local regulatory requirements. As clean air regulations become law accross the globe, the HUSS Group will be there to provide proven and dependable solutions.

HUSS Technologies is the ideal partner for the development and integration of engine and vehicle solutions for manufacturers.

Complete solutions for emission reduction under one roof:

HUSS - We care for air.



We care for air.



HUSS LLC

Sales and service
North America

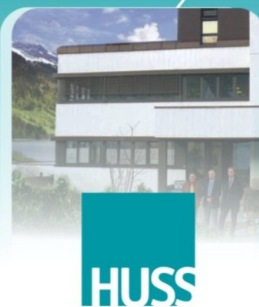


HUSS Umwelttechnik GmbH

Retrofit sales for Europe
and other export markets
After sales service

HUSS Technologies GmbH

Sales firstfit
System integration



HUSS Umwelttechnik AG

Sales and service for
Switzerland, France
and Italy



CleanDieselCeramics GmbH

Development and
production of LPS-SiC
diesel particulate
filters



Metpela Oy

Development and
production of mufflers
and pipings; Canning
technique

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